

Title (en)

METHOD OF OPERATING AN OPTICAL MEASURING SYSTEM FOR MEASURING THE CONCENTRATION OF A GAS COMPONENT IN A GAS TO BE MEASURED

Title (de)

VERFAHREN ZUM BETREIBEN EINES OPTISCHEN MESSSYSTEMS ZUR MESSUNG DER KONZENTRATION EINER GASKOMPONENTE IN EINEM MESSGAS

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME DE MESURE OPTIQUE PERMETTANT DE MESURER LA CONCENTRATION D'UN COMPOSANT DE GAZ DANS UN GAZ DE MESURE

Publication

EP 3543682 B1 20200429 (DE)

Application

EP 18163424 A 20180322

Priority

EP 18163424 A 20180322

Abstract (en)

[origin: CN110296957A] A method of operating an optical measuring system for measuring the concentration of a gas component in gas to be measured based on a wavelength-modulated spectrum is provided. A laser light source is operated in a current modulation manner using a basic current IDC and a modulated current IAC, and emits a laser beam with a wavelength λ_0 having a wavelength modulation amplitude $[\Delta\lambda]_{AC}$, and the wavelength modulation amplitude $[\Delta\lambda]_{AC}$ of the laser is kept constant by variably setting a current modulation amplitude $[\Delta I]_{AC}$. The modulated power P_{AC} at an internal resistor RI of the laser light source at a working point is kept constant to stabilize the wavelength modulation amplitude $[\Delta\lambda]_{AC}$.

IPC 8 full level

G01N 21/39 (2006.01); **G01J 3/433** (2006.01)

CPC (source: CN EP)

G01J 3/4338 (2013.01 - EP); **G01N 21/39** (2013.01 - CN EP); **G01N 2021/399** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3543682 A1 20190925; **EP 3543682 B1 20200429**; CN 110296957 A 20191001; CN 110296957 B 20220429

DOCDB simple family (application)

EP 18163424 A 20180322; CN 201910216270 A 20190321